

THOMSON  DELPHION			
Home About Us Contact Us My Account Products	RESEARCH	PRODUCTS	INSIDE DELPHION
Search: Quick/Number Boolean Advanced			

The Delphion Integrated View

Get Now: <input checked="" type="checkbox"/> PDF More choices...	Tools: Add to Work File Create new Wor
View: INPADOC Jump to: Top	Go to: Derwent

🔍 Title: **JP4206366A2: FLAT BATTERY**

🔍 Country: **JP Japan**

🔍 Kind: **A**

🔍 Inventor: **NAKAI KENJI;
HIGASHIMOTO KOJI;
HIRONAKA KENSUKE;
HAYAKAWA TAKUMI;
KOMAKI AKIO;
NAKANAGA TAKEFUMI;
TANIGUCHI MASATOSHI;**

🔍 Assignee: **SHIN KOBE ELECTRIC MACH CO LTD.
OTSUKA CHEM CO LTD.**
[News, Profiles, Stocks and More about this company](#)



🔍 Published / Filed: **1992-07-28 / 1990-11-30**

🔍 Application Number: **JP1990000333743**

🔍 IPC Code: **H01M 10/40; H01M 4/02**

🔍 Priority Number: **1990-11-30 JP1990000333743**

🔍 Abstract:

... PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

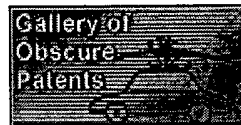
... CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

... COPYRIGHT: (C)1992,JPO&Japio

🔍 Family: **None**

🔍 Other Abstract **None**

Info:



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion

[Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)


THOMSON  DELPHION		RESEARCH	PRODUCTS	INSIDE DELPHION
Log On	My Account	Products	Search: Quick/Number Boolean Advanced	

The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)


Tools: Add to Work File: [Create new Wor](#)


View: INPADOC | Jump to: [Top](#)  Go to: [Derwent...](#)

 [Ema](#)

 Title: **JP4206366A2: FLAT BATTERY**

 Country: **JP Japan**

 Kind: **A**

 Inventor: **NAKAI KENJI;
HIGASHIMOTO KOJI;
HIRONAKA KENSUKE;
HAYAKAWA TAKUMI;
KOMAKI AKIO;
NAKANAGA TAKEFUMI;
TANIGUCHI MASATOSHI;**


 Assignee: **SHIN KOBE ELECTRIC MACH CO LTD.
OTSUKA CHEM CO LTD.**
[News, Profiles, Stocks and More about this company](#)

 Published / Filed: **1992-07-28 / 1990-11-30**

 Application **JP1990000333743**

Number:

 IPC Code: **H01M 10/40; H01M 4/02;**

 Priority Number: **1990-11-30 JP1990000333743**

 Abstract:

PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

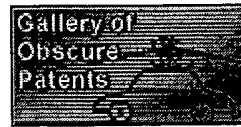
COPYRIGHT: (C)1992,JPO&Japio.

 Family: **None**

 Other Abstract **None**



Info:



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion | [Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)



(19)

(11) Publication number: **04**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

<p>(30) Priority:</p> <p>(43) Date of application publication: 28.07.92</p> <p>(84) Designated contracting states:</p>	<p>(71) Applicant: SHIN KOBE ELECTRIC LTD. OTSUKA CHEM CO LT</p> <p>(72) Inventor: NAKAI KENJI HIGASHIMOTO KOJI HIRONAKA KENSUKE HAYAKAWA TAKUMI KOMAKI AKIO NAKANAGA TAKEFUM TANIGUCHI MASATOSH</p> <p>(74) Representative:</p>
---	--

(54) FLAT BATTERY

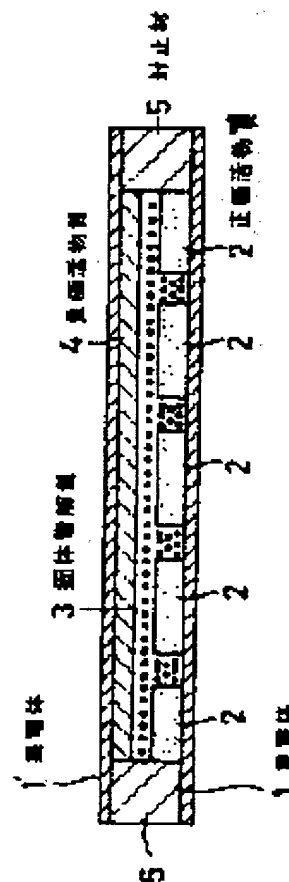
(57) Abstract:

PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a

polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

COPYRIGHT: (C)1992,JPO&Japio





(19)

(11) Publication number: **04**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **02333743**(51) Intl. Cl.: **H01M 10/40 H01M 4/02**(22) Application date: **30.11.90**

(30) Priority:

(43) Date of application
publication: **28.07.92**(84) Designated contracting
states:(71) Applicant: **SHIN KOBE ELECTRIC
LTD
OTSUKA CHEM CO LT**(72) Inventor: **NAKAI KENJI
HIGASHIMOTO KOJI
HIRONAKA KENSUKE
HAYAKAWA TAKUMI
KOMAKI AKIO
NAKANAGA TAKEFUM
TANIGUCHI MASATOSH**

(74) Representative:

(54) FLAT BATTERY

(57) Abstract:

PURPOSE: To prevent the aggravation of the battery performance by laminating a flat positive electrode active material and a negative electrode active material through a solid electrolyte, covering these generating elements with a collector, divisionally forming the positive electrode active material on the collector, and sealing the peripheral part by a sealing material.

CONSTITUTION: On a stainless foil used as both a battery sheath and a collector 1, an aqueous solution of vanadium pentoxide which is a positive electrode material 2 is finely applied by means of screen printing, dried and heated. For example, a 1,2-dimethoxyethane(DME) solution of a

polyphosphadine derivative in which 1mol/l of lithium perchlorate is dissolved is applied thereon by means of screen printing, and the DME is evaporated to form a solid electrolyte 3. A metal lithium foil is stuck thereon as a negative electrode active material 4, and further covered with the stainless foil of a collector 1', and the peripheral part is thermally fused by a sealing material 5 such as a modified polyethylene resin and sealed. Thus, the aggravation of the battery performance can be prevented.

COPYRIGHT: (C)1992,JPO&Japio

